Notice of Allowability	Application No.	Applicant(s)
	10/077,691	UNRATH ET AL.
	Examiner	Art Unit
	Denise S Allen	2872
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 12 April 2004.		
2. The allowed claim(s) is/are <u>1-5,7-9,11-20 and 22</u> .		
3. The drawings filed on 15 February 2002 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 04/12/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit 	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amenda	e
of Biological Material	9.	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 12, 2004 has been entered.

Response to Arguments

Applicant's arguments, see pages 8 - 9, filed April 12, 2004, with respect to claims 1 - 5, 7-9, 11-20, and 22 have been fully considered and are persuasive. The rejection of claims 1-5, 7 - 9, 11 - 20, and 22 has been withdrawn.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 1-5, 7-9, 11-20, and 22 are allowable over the prior art for at least the reason the prior art fails to teach and/or suggest an apparatus for directing a laser beam toward a target location on a workpiece that includes a positioner that positions the workpiece based on coordinate position command information; position sensors that produce position signals indicative of the actual coordinate position of the positioner; processing circuitry that provides error signals indicative of a difference between the coordinate position command information and the actual coordinate position; a two-axis steering mirror that deflects the laser beam in response to the error signals in a manner sufficient to compensate for the laser beam position

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errors; and a focusing lens, with an entrance pupil set at the pivot point of the two-axis steering mirror, that focuses the laser beam onto the workpiece as set forth in the claimed combination.

Cutler et al (US 5,751,585) teaches an apparatus for directing a laser beam toward a target location on a workpiece that uses two one-axis steering mirrors and both the positioner and the mirrors respond to the error signals generated by the processing circuitry.

Becker et al (US 4,001,840) teaches an apparatus for directing a laser beam toward a target location on a workpiece that uses a two-axis steering mirror to deflect the laser beam, but the workpiece is stationary.

Kawasaki et al (US 5,571,430) teaches an apparatus for directing a laser beam toward a target location on a workpiece that uses a two-axis steering mirror to deflect the laser beam and generate a predetermined pattern, but not to compensate for position errors.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Denise S Allen whose telephone number is (571) 272-2305. The examiner can normally be reached on Monday - Friday, 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew A Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Denise S Allen Examiner Art Unit 2872

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Audrey Chang

Primary Examiner Technology Center 2800